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Data Sheet

August 13, 2026

ANRITSU

Anritsu 69159A Synthesized Sweep Generator, 0.01 to 26.5 GHz

Anritsu 69159A Synthesized Sweep Generator 10 MHz to 26.5 GHz The Anritsu/Wiltron 69159A is a 69A Series synthesized sweep generator covering 0.01 GHz to 26.5 GHz. It provides analog, step, and manual sweeps with ultra-low-noise CW spectral purity for network analysis and swept ATE across RF through Ka band. It is the sweep member of the 69×59A family. The Anritsu/Wiltron 69159A is a 69A Series synthesized sweep generator covering 0.01 GHz to 26.5 GHz. It provides analog, step, and manual sweeps with ultra-low-noise CW spectral purity for network analysis and swept ATE across RF through Ka band. It is the sweep member of the 69×59A family.



MODEL Anritsu 69159A	CALIBRATION Available on request
CONDITION Used	STATUS In stock
RFQ / SKU 69159A	LISTING https://aumictechlabs.com/products/69159a-2/

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Anritsu 69159A is a synthesized sweep generator delivering precise signal generation across 0.01 to 26.5 GHz. Phase-locked frequency synthesis combined with analog, step, and manual sweep modes enables flexible RF and microwave testing in laboratory and production environments. Output spans -125 dBm to +17 dBm with ultra-low phase noise (-100 dBc at 10 kHz offset from 10 GHz) and excellent spurious performance. Internal AM, FM, phase, and pulse modulation, plus downloadable complex modulation, support diverse signal conditioning

requirements. GPIB control integrates the instrument into automated test systems. Technical Specifications Frequency Range: 0.01 to 26.5 GHz Output Power: Maximum: +17 dBm Minimum: –125 dBm Phase Noise: SSB: –100 dBc at 10 kHz offset from 10 GHz Minimum SSB noise floor: –101 dBc/Hz (at 26.5 GHz) Maximum SSB noise floor: –52 dBc/Hz (at 26.5 GHz) Spurious Performance: Harmonics: –35 dBc (at 26.5 GHz) Output Impedance: 50 Ω Key Features Sweep Modes: Analog sweep: 1 kHz to full range (0.1 Hz with Option 11), phase-locked at every frequency step Step sweep: 1 to 10,000 steps; step size 1 kHz to full range; dwell time 1 ms to 99 seconds; switching time <15 ms + 1 ms/GHz or <40 ms typical Manual sweep: Phase-locked stepped adjustment between user-defined limits Alternate sweep: Two independent frequency ranges with selectable power levels per range Modulation: Internal AM, FM, phase (ϕ M), and pulse modulation User-downloadable complex modulation capability Typical Applications RF and microwave component characterization Network analyzer stimulus generation Receiver sensitivity and linearity testing Automated test system signal sourcing Compatibility & Integration IEEE-488 (GPIB) remote control enables integration with automated test equipment Compatible with Anritsu RF and microwave test instrument ecosystem

Features & description

From manufacturer datasheet

Features

- Synthesized sweep coverage 0.01 to 26.5 GHz

Applications

- Swept frequency stimulus 0.01 to 26.5 GHz

69159A Characteristics / Specifications

PARAMETER	VALUE
Model	69159A
Manufacturer	Anritsu (Wiltron 69A Series)
Instrument Type	Synthesized Sweep Generator
Alias	69159A; Anritsu 69159A; Wiltron 69159A
Frequency range	0.01 GHz to 26.5 GHz
Family	69A Series ultra low noise
Output power resolution	0.01 dB
Source impedance	50 ohm nominal
Source SWR internal leveling below 2 GHz	less than 1.7 typical
Source SWR 2 to 20 GHz	less than 1.6 typical
Source SWR above 20 GHz	less than 2.0 typical
Power level stability vs temperature	0.04 dB/degCtypical
Internal leveling	yes at output connector
RF on off	yes
Level offset	yes
CW frequency resolution standard	1 kHz class
CW accuracy	same as internal or external 10 MHz time base
Internal time base aging	less than 2×10^{-8} /day class
Residual FM 0.5 to 1.0 GHz class	less than 10 Hz RMS
Residual FM 1.0 to 2.2 GHz class	less than 20 Hz RMS
Residual FM 2.2 to 20 GHz class	less than 40 Hz RMS
Step attenuator option to 26.5 GHz	Option 2A 110 dB
Rack mount option	Option 1
Remote control	GPIB

PARAMETER	VALUE
Leveled output power 0.01 to less than 2 GHz class	+13 dBm
Leveled output power 2 to 20 GHz class	+13 dBm
Leveled output power greater than 20 to 26.5 GHz class	+10 dBm
Leveled output with step attenuator 0.01 to less than 2 GHz class	+11 dBm
Leveled output with step attenuator 2 to 20 GHz class	+11 dBm
Leveled output with step attenuator greater than 20 to 26.5 GHz class	+7.5 dBm
Analog sweep width	1 MHz to full range
Analog sweep time	30 ms to 99 s
Step sweep	every frequency step phase locked
Output mode	CW and sweep
Related CW model	69059A
Related signal model	69259A
Related sweep signal model	69359A
Primary use	ultra low noise synthesized sweep 0.01 to 26.5 GHz Notes Specs from Anritsu/Wiltron 69A Series datasheet tables for 69×59A / 69159A (0.01–26.5 GHz Sweep). Series: 69000A CW, 69100A Sweep, 69200A Signal, 69300A Sweep/Signal. Confirm options and calibration label power.

Full OEM specifications

Complete technical content extracted from the manufacturer datasheet. Sparse OEM tables are reconstructed as tables below; other text is preserved as paragraphs.

Specifications	
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PARAMETER	VALUE
Model	69159A
Manufacturer	Anritsu (Wiltron 69A Series)
Instrument Type	Synthesized Sweep Generator
Specifications	
PARAMETER	VALUE
Alias	69159A; Anritsu 69159A; Wiltron 69159A
Frequency range	0.01 GHz to 26.5 GHz
Family	69A Series ultra low noise
Specifications	
PARAMETER	VALUE
Output power resolution	0.01 dB
Source impedance	50 ohm nominal
Source SWR internal leveling below 2 GHz	less than 1.7 typical
Specifications	
PARAMETER	VALUE
Source SWR 2 to 20 GHz	less than 1.6 typical
Source SWR above 20 GHz	less than 2.0 typical
Power level stability vs temperature	0.04 dB/degCtypical
Specifications	
PARAMETER	VALUE
Internal leveling	yes at output connector
RF on off	yes
Level offset	yes

Specifications

PARAMETER	VALUE
CW frequency resolution standard	1 kHz class
CW accuracy	same as internal or external 10 MHz time base
Internal time base aging	less than 2×10^{-8} /day class

Specifications

PARAMETER	VALUE
Residual FM 0.5 to 1.0 GHz class	less than 10 Hz RMS
Residual FM 1.0 to 2.2 GHz class	less than 20 Hz RMS
Residual FM 2.2 to 20 GHz class	less than 40 Hz RMS

Specifications

PARAMETER	VALUE
Step attenuator option to 26.5 GHz	Option 2A 110 dB
Rack mount option	Option 1
Remote control	GPIO

Leveled output power 0.01 to less than 2 GHz class: +13 dBm

Leveled output power 2 to 20 GHz class: +13 dBm

Leveled output power greater than 20 to 26.5 GHz class: +10 dBm

Leveled output with step attenuator 0.01 to less than 2 GHz class: +11 dBm

Leveled output with step attenuator 2 to 20 GHz class: +11 dBm

Leveled output with step attenuator greater than 20 to 26.5 GHz class: +7.5 dBm

Specifications

PARAMETER	VALUE
Analog sweep width	1 MHz to full range
Analog sweep time	30 ms to 99 s
Step sweep	every frequency step phase locked

Specifications

PARAMETER	VALUE
Output mode	CW and sweep
Related CW model	69059A
Related signal model	69259A

Related sweep signal model: 69359A

Primary use: ultra low noise synthesized sweep 0.01 to 26.5 GHz

Notes

Specs from Anritsu/Wiltron 69A Series datasheet tables for 69x59A / 69159A (0.01-26.5 GHz Sweep). Series: 69000A CW, 69100A Sweep, 69200A Signal, 69300A Sweep/Signal. Confirm options and calibration label power.

Available from Aumictech

Used and refurbished unit evaluated in-house. Calibration: Available on request. Used · In stock.

Request a quote: sales@aumictech.com · +1 (484) 841-9341

Aumictech

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NIST-traceable calibration · SAM registered ·
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Technical content from manufacturer specifications. Unit photo/stock from Aumictech listing when available. Specifications subject to OEM documentation and unit condition.